MATH 601 SYLLABUS

Instructor: Maxim Arap  
Course: MATH 601  
Office hours: Tuesday 9-11 AM

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Course description

This is the first semester of graduate algebra course. The highlights of this course are the following general topics: groups, rings, modules, fields and Galois theory. The focus of the course is to understand the fundamental structures of modern algebra and to solve sufficiently many exercises to prepare for the qualifying exam in algebra.

Time and location

Lectures: Tuesdays and Thursdays 1:30-2:45 in Krieger Hall 308.

Textbook

Basic Algebra I and II by N. Jacobson.

Our aim is to cover most of Chapters 1-4 from Volume I plus extra topics from Volume II and supplementary resources. Please, consult the detailed course outline for more details.

Supplementary resources


Grading policy

50 % Homework.
20 % One in class test. Tentative date: October 25.
30 % Comprehensive final exam: 9-12 noon, December 14.
Attendance

The lectures will contain material beyond what is covered in the textbook. Therefore, you are strongly advised to attend every class.

Academic Honesty

Cheating is wrong. Cheating hurts our community by undermining academic integrity, creating mistrust, and fostering unfair competition. The university will punish cheaters with failure on an assignment, failure in a course, permanent transcript notation, suspension, and/or expulsion. Offenses may be reported to medical, law, or other professional or graduate schools when a cheater applies.

Violations can include cheating on exams, plagiarism, reuse of assignments without permission, improper use of the Internet and electronic devices unauthorized collaboration, alteration of graded assignments, forgery and falsification, lying, facilitating academic dishonesty, and unfair competition. Ignorance of these rules is not an excuse.

In this course the students are allowed to discuss homework problems with each other, but they must write their solution on their own. Please, review the guide at

http://www.jhu.edu/design/oliver/academic_manual/ethics.html

Additional Information

1. The homework is the most important part of this course. Late homework will not be accepted, except in extraordinary situations.

2. The students are strongly advised to read the material in the book before coming to class. There is no penalty for reading ahead or consulting other sources.

3. There will be no make up tests given.

4. If you cannot make the office hours, but need help, feel free to contact me and make an appointment.

Disclaimer: This syllabus provides a general guideline for the course, deviations may be necessary.